PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY



	PCI PIE 1				
WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY					
	(PCT Rule 43bis.1)				
Date of mailing (day/month/year) 2	0 OCTOBER 2004 (20.10.2004)				
FOR FURTHER A	FOR FURTHER ACTION				
L	ee paragraph 2 below				
(day/month/year)	Priority date(day/month/year)				
	27 JUNE 2003 (27.06.2003)				
tion and IPC					
•					
· · · · · · · · · · · · · · · · · · ·					
15:	·				
Box No. I Basis of the opinion					
Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
d to novelty, inventive :	step and industrial applicability				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applications and explanations supporting such statement					
ication					
application					
ot that this does not applitified the International I to considered. opinion of the IPEA, the	nsidered to be a written opinion of the by where the applicant chooses an Authority Bureau under Rule 66.1 bis(b) that written he applicant is invited to submit to the tion of 3 months from the date of mailing hichever expires later.				
	Date of mailing (day/month/year) 2 FOR FURTHER AC S (day/month/year) 4.06.2004) Ition and IPC a)(i) with regard to nove the statement ication application this opinion will be contributed the International I to considered. opinion of the IPEA, thents, before the expirationals, before the expirationals.				

Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

JEONG, Jae Woo

Telephone No. 82-42-481-5718



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/001569

Bo	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in wirtten format
	in computer readable form
ŀ	c. time of filing/furnishing
	contained in the international application as filed.
٠	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been
	filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that
	in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
١.	
4.	Additional comments:
	·
1	
1	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2004/001569

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims		YES
	Claims	1 - 21	NO
Inventive step (IS)	Claims		YES
	Claims	1 - 21	NO
Industrial applicability (IA)	Claims	1 - 21	YES
	Claims		NO

2. Citations and explanations:

D: US 20030037241 (2003.2.20)

The claimed inventions relate to a two-factor authenticated key exchange method, in which a subscriber terminal sends an authentication message for a subscriber and an encryption word generated using a random number, a password and a symmetric key to an authentication server, and receives an authentication message for authentication server, and finally authenticates the received authentication message using the crypto-key and the password.

D discloses a method for authenticating a message recipient using a data encryption with a symmetric key algorithm and an authentication key generated by hashing algorithm.

Both of the cited document and the claimed invention describe the authentication method, in which a terminal send an authentication message to a server and receive an authentication message from the server, and the authentication is done using a password and a symmetric key. Even though the pre-computation process using a random number of the claimed invention is not shown in the citation and the extensible authentication protocol and the RADIUS protocol used in the claimed invention is not referred in the citation, these features of the claimed invention are obvious to a person skilled in the art or are suggested in the prior art. Therefore, the claims 1-21 are not considered to fulfil the requirement of novelty and inventive step under PCT Article 33(2)(3).